

AMENDMENTS

IN THE CLAIMS:

Please amend the claims as follows:

1. (Original) A transmitter in a base station, comprising:

a pilot gain controller for generating a first gain value and a second gain value according to a current transmission power and a remaining transmission power of the base station;

a first multiplier for receiving pilot bits, multiplying the pilot bits by the first gain value, and generating a first control signal, and thereby controlling the transmission power level of the pilot bits ;

a second multiplier for receiving the pilot bits, multiplying the pilot bits by the second gain value, and generating a second control signal, and thereby controlling the transmission power level of the pilot bits;

a first spreader for generating a first pilot signal by spreading the first control signal with a first orthogonal code;

a second spreader for generating a second pilot signal by spreading the second control signal with a second orthogonal code ; and

an adder for adding the first pilot signal to the second pilot signal.

2. (Original) The transmitter of claim 1, wherein the first and second pilot signals are transmitted continuously in time.

3. (Original) The transmitter of claim 1, wherein the first and second pilot signals are transmitted periodically in time.

4. (Original) The transmitter of claim 1, wherein a ratio of the transmission power of the second pilot signal to the transmission power of the first pilot signal is the current transmission power.

5. (Original) A transmitter in a base station, comprising:

a pilot gain controller for generating a first gain value and a second gain value according to a current transmission power and a remaining transmission power of the base station;

a first pilot channel generator for receiving pilot bits and generating a first pilot channel signal by controlling the gain of the pilot bits with the first gain value and spreading the gain-controlled signal with a first orthogonal code;

a second pilot channel generator for receiving the pilot bits and generating a second pilot channel signal by controlling the gain of the pilot bits with the second gain value and spreading the gain-controlled signal with a second orthogonal code ;

an adder for adding the first and second pilot channel signals; and

a channel transmitter for PN-spreading the output signal of the adder, converting the frequency of the PN-spread signal, and transmitting the converted signal.

6-11. (Cancelled)

12. (Original) A method of reporting current transmission power to a mobile station by a base station, comprising the steps of:

generating a first gain value and a second gain value according to a current transmission power and a remaining transmission power;

receiving pilot bits;

generating a first pilot signal by controlling the transmission power level of the pilot bits with the first gain value and spreading the gain-controlled signal with a first orthogonal code, and transmitting the first pilot signal; and

generating a second pilot signal by controlling the transmission power level of the pilot bits with the second gain value and spreading the gain-controlled signal with a second orthogonal code, and transmitting the second pilot signal.

13. (Original) The method of claim 12, wherein the first and second pilot signals are transmitted continuously in time.

14. (Original) The method of claim 12, wherein the first and second pilot signals are transmitted periodically in time.

15. (Original) The method of claim 12, wherein a ratio of the transmission power of the second pilot signal to the transmission power of the first pilot signal is the current transmission power.

16-22. (Cancelled)